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## CHAPS &amp; CHAPSO

Zwitterionic detergents that protect the native state of proteins.

## Applications:

- Solubilizing the opiate receptor from rat brain cell membranes, while retaining the reversible opiate binding property of the receptor<sup>1</sup>
- Purifying microsomal signal peptidase as a complex<sup>2</sup>
- Solubilizing dopamine D<sup>2,3</sup>, muscarinic<sup>4</sup>, and opiate receptors<sup>5</sup> from brain tissue

## Features

- Combine all the advantages of polar, sulfobetaine-containing detergents and hydrophobic, bile salt, anionic detergents into a single molecule...with superior membrane protein solubilization properties
- Non-denaturing
- Able to disrupt nonspecific protein interactions
- Less protein aggregation than non-ionic detergents
- Electrically neutral
- Easily removed by dialysis

## References

1. Simonds, W.F., et al. (1980). Proc. Natl. Acad. Sci. (USA) 77, 4623-4627.
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## Images

[Structure Image for Product Family CHAPS & CHAPSO](#)

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## Detergents

Pierce provides several high-purity, low peroxide-containing detergents in clear ampules sealed under nitrogen.

### Brij-35 Detergent

A non-ionic detergent useful for the isolation of functional membrane complexes.

### CHAPS & CHAPSO

A non-denaturing detergent able to disrupt nonspecific protein interactions and has less protein aggregation than non-ionic detergents. It is electrically neutral and easily removed by dialysis.

### Octyl $\beta$ -Glucoside

A non-ionic detergent that has been widely used for membrane protein solubilization.

### Octyl $\beta$ -Thioglucopyranoside

Offers solubilizing power comparable to Octyl  $\beta$ -Glucoside, with increased stability.

### SDS (Sodium Dodecyl Sulfate-Lauryl)

Unique distribution of carbon chain lengths in sequanal grade SDS (lauryl) is advantageous in resolving viral proteins during gel electrophoresis.

### Sodium Dodecyl Sulfate - C12

Greater than 98% C12 alkyl sulfate, with low levels of hexadecyl sulfate C16, which can inhibit renaturation.

### Surfact-Amps Purified Detergent Solutions

Active ingredient is supplied as a purified 10% aqueous solution ampuled under nitrogen.

### Surfact-Pack Detergent Sampler

10 different detergents, now it's easy to find the best detergent for your application!

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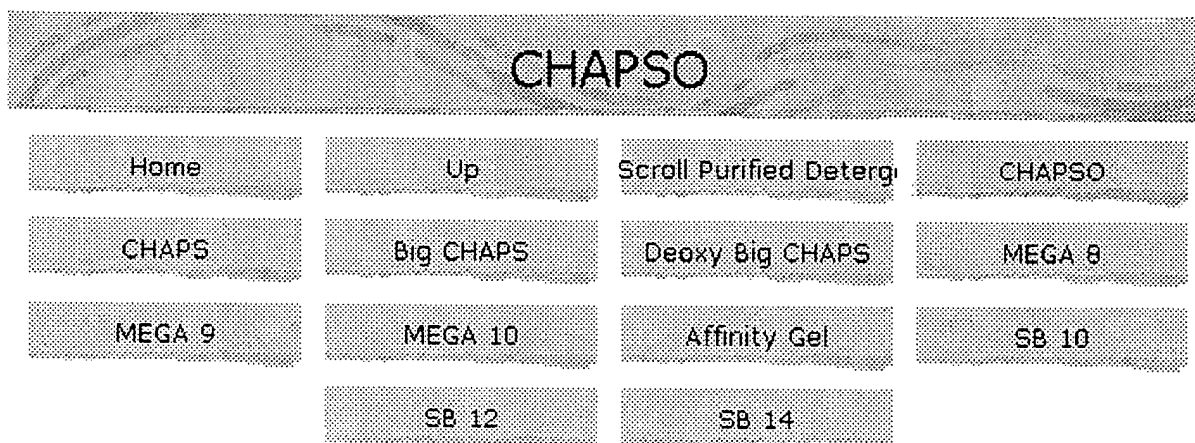
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### **CHAPSO references:**

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